CTX

Service Manual

Model: LJE15XE (S500)

LCD Monitor Specialists

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FCC INFORMATION

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause unacceptable interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures -- reorient or relocate the receiving antenna; increase the separation between equipment and receiver; or connect the into an outlet on a circuit different from that to which the receiver is connected.

FCC WARNING

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to Amtrak products will void the user's authority to operate this device. Thus **CTX** will not be held responsible for the product and its safety.

CE CERTIFICATION

This device complies with the requirements of the **EMC (EN55022,EN55024) & L.V.D (EN 60950)** with regard to **"**Electromagnetic compatibility."

SAFETY CAUTION

Use a power cable that is properly grounded. Always use the AC cords as follows : Detachable ,3 P With ground type. DC Power cable, Detachable from display unit and captive with AC/DC Adapter.

Features

The S500 are world class TFT LCD analog display monitor that includes the following features.

1. Digital On Screen Display Controls

   User friendly buttons [Menu， Select (▲ / ▼)， Auto， Power and hot key (Smoothing， Auto-Contrast， Auto-Sync)] allowing for picture perfect quality。 User can define display mode or reset to default settings。 Help menu contains ： Auto-Tune (Adjusting);Color (9300/6500/User);Quality (Size/Phase/Focus /Dithering);Position (Image H-Pos./V-Pos./Center) & Position (OSD H-Pos./V-Pos./Center);Language (English/Germany/French/Spanish/Italian); Recall (Yes/No)。

2. Power Supply Support

   Ability to accept voltages from 100~120 Vac，200~240 Vac,50/60 Hz (+6%,-10%) thus allowing a full range of input AC power supply。

3. Power Saving System

   This monitor will meet the low power specification，Including USA governmental requirements for Energy Star，the NUTEK standard and the VESA DPMS standard which detected the Hori/Vert。 Sync signal from host CPU。A dual color(green/amber) LED is located on the front bezel to indicate the power management states。

4. Frequency Range

   Monitor can support video standards from VGA to XGA， where Horizontal frequency ranges from31~60kHz and Vertical frequency ranges from 58~75 Hz。

SPECIFICATIONS

Characteristic	Description
LCD Panel	15”diagonal, XGA resolution, color TFT-LCD, R/G/B sub-pixels in vertical stripes 1024 x 768 array matrix, 16 million colors
Maximum Viewing Angles	Up :45º Down:55º
Signal Input	Video : RGB analog, 0.7 Vp-p, 75 ohms Sync : H/V separate or composite sync, TTL Horizontal : 31~60 kHz Vertical : 58~75 Hz
Connector	15 Pin Mini D-Sub
Maximum Resolution	1024x768
Video Bandwidth	100 MHz nominal
Power Voltage	100~120Vac @ 50 / 60 Hz (auto switch), 12Vdc 3.5A 200~240Vac @ 50 / 60 Hz (auto switch), 12Vdc 3.5A
Power Consumption	35 W maximum
Operating Conditions	Temperature : 5℃ to 35℃ Humidity : 20% to 80% **(no condensation)** Altitude : To 10,000 feet
Storage Condition	Temperature : -20℃ to 60℃ Humidity : 10% to 90% **(no condensation)** Altitude : To 40,000 feet
Dimensions	Physical : 383mm (W) x 375mm (H) x 169mm (D)

On Screen Display (OSD)

OSD (On Screen Display) function is supported on each the TFT LCD analog display monitors and is controlled by four easy to use buttons – Menu, Select (▲), Select (▼), Auto, Power.

Table:

Level 1	Level 2	Level 3	Level 4
Contrast (icon)	Adjustment scale		
Brightness (icon)	Adjustment scale		
Auto Tune	Adjusting		
Color	9300 6500		
	User	Red (icon) Green (icon) Blue (icon)	Adjustment scale Adjustment scale Adjustment scale
Quality	Size Phase Focus Dithering Text/Gfx	Adjustment scale Adjustment scale Adjustment scale Off Available/No Effect	
Position	Image Pos.	H. Pos. V. Pos. Center	Adjustment scale Adjustment scale Adjusting
	OSD Pos.	H. Pos. V. Pos. Center	Adjustment scale Adjustment scale Adjusting
Language	English Germany French Spanish Italian		
Recall	Yes/No		

FACTORY PRESET TIMINGS

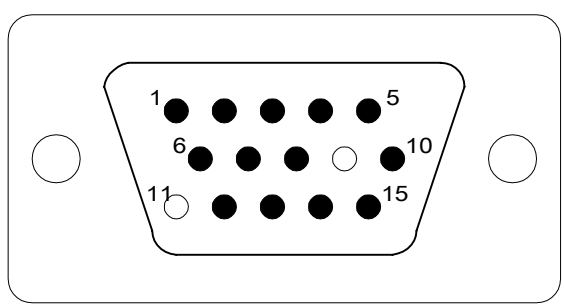
This timing chart is already preset for the TFT LCD analog display monitors.

Timing	Horizontal Polarity	Horizontal Frequency	Vertical Polarity	Vertical Frequency
IBM VGA 640x350	+	31.47 KHz	-	70.09 Hz
IBM VGA 720x400	-	31.47 KHz	+	70.08 Hz
IBM VGA 640x480	-	31.47 KHz	-	59.94 Hz
VESA 640x480	-	37.86 KHz	-	72.81 Hz
VESA 640x480	-	37.50 KHz	-	75.00 Hz
VESA 800x600	+	37.88 KHz	+	60.32 Hz
VESA 800x600	+	48.08 KHz	+	72.19 Hz
VESA 800x600	+	46.88 KHz	+	75.00 Hz
VESA 1024x768	-	48.36 KHz	-	60.00 Hz
VESA 1024x768	-	56.48 KHz	-	70.07 Hz
VESA 1024x768	+	60.02 KHz	+	75.03 Hz

PIN ASSIGNMENT

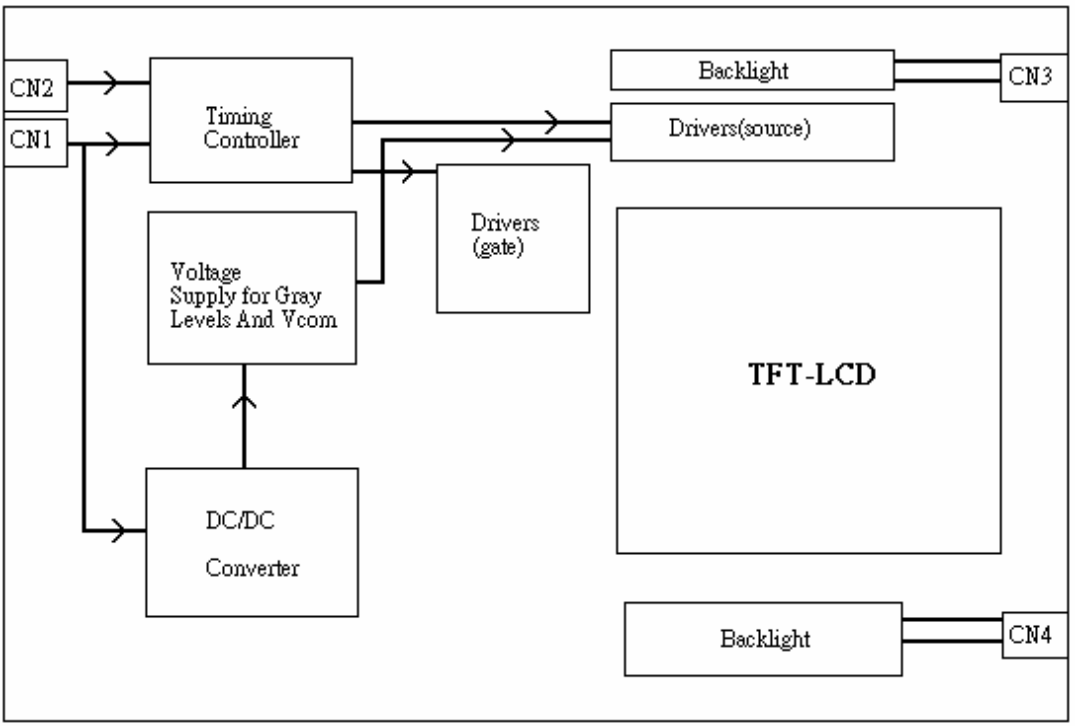
The TFT LCD analog display monitors use a 15 Pin Mini D-Sub connector as video input source.

Pin	Description
1	**Red**
2	**Green**
3	**Blue**
4	**No Connection**
5	**Ground**
6	**R-Return**
7	**G- Return**
8	**B- Return**
9	**No Connection**
10	**Ground**
11	**Ground**
12	**(SDA)**
13	**H-Sync (Composite Sync)**
14	**V-Sync**
15	**(SCL)**

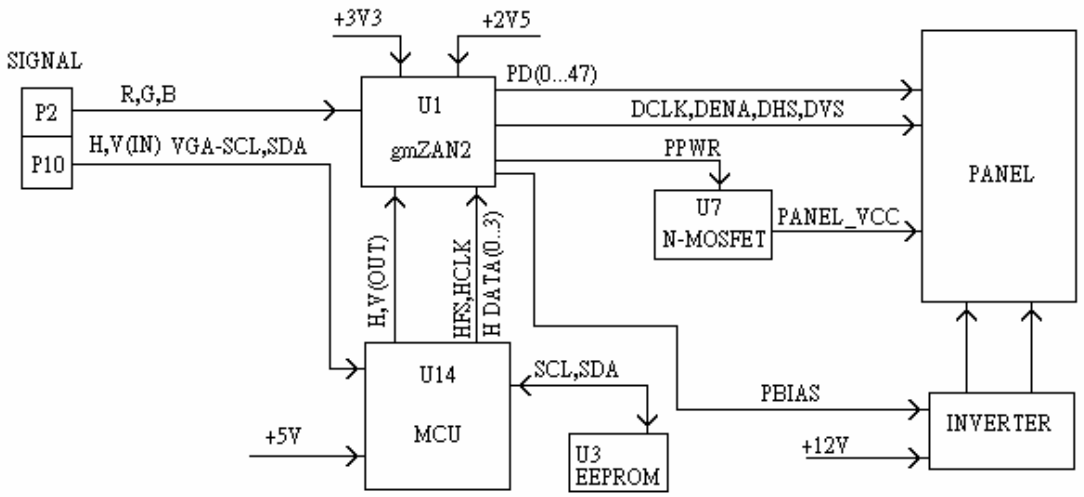


BLOCK DIAGRAM

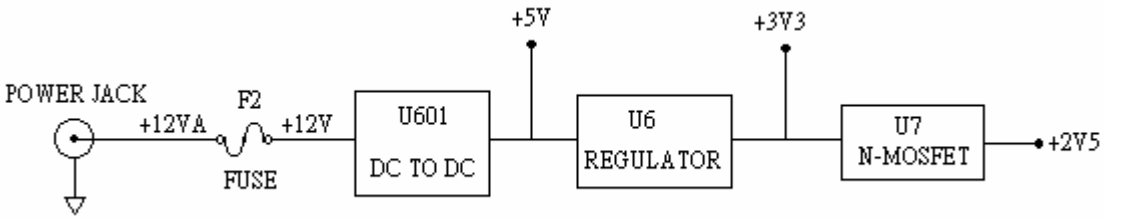
TFT-LCD Module



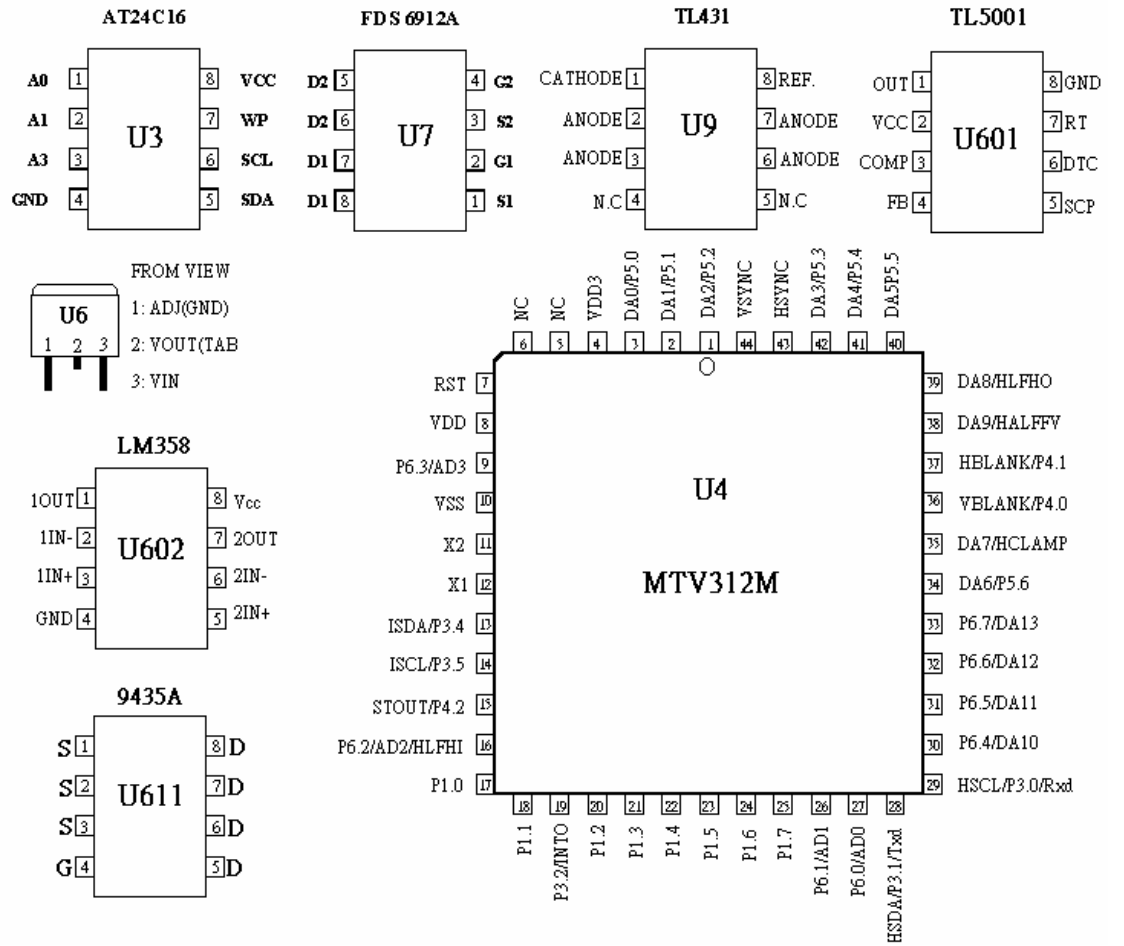
MAIN BOARD BLOCK DIAGRAM



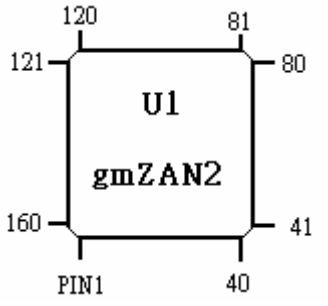
POWER BLOCK DIAGRAM



Main Board IC Pin Configuration



Pin Configuration



Pin Parameter:

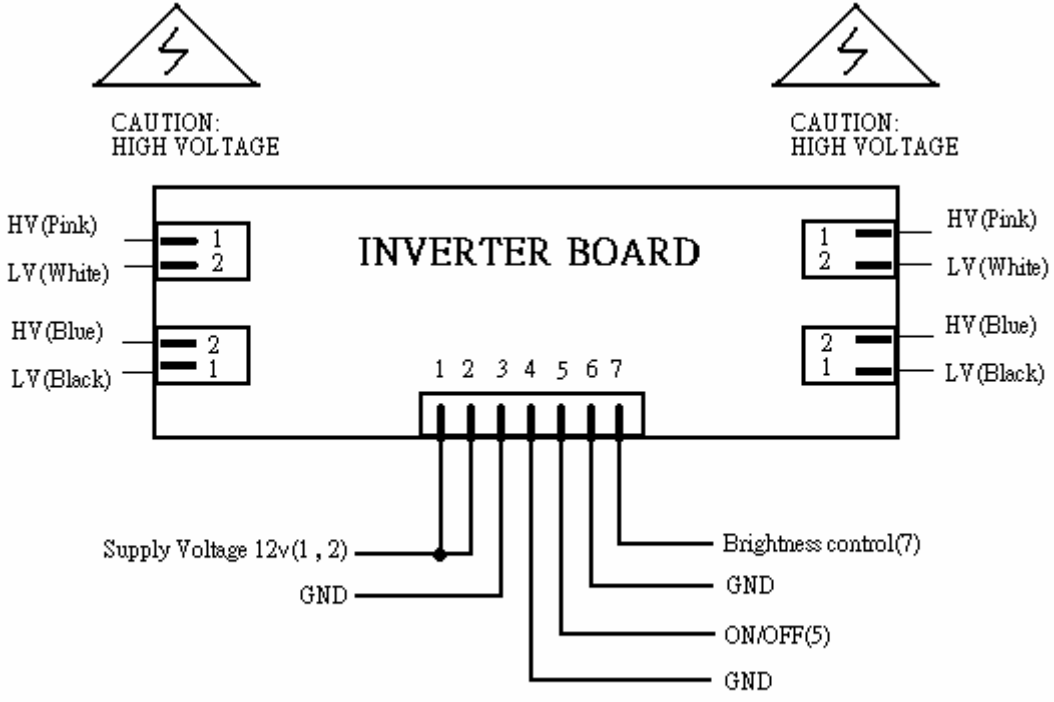
RED+	PIN95
GREEN+	PIN91
BLUE+	PIN87
RED-	PIN94
GREEN-	PIN90
BLUE-	PIN85
RESERVED	PIN2
RESERVED	PIN4
RESERVED	PIN83
NC	PIN97
RESERVED	PIN130
RESERVED	PIN135
RESERVED	PIN145
RESERVED	PIN152
RESERVED	PIN156
HSYNC/CS	PIN150
VSYNC	PIN148
TCLK	PIN141
XTAL	PIN142
STI_TM1	PIN153
STI_TM2	PIN154
SCAN_IN1	PIN155
SCAN_IN2	PIN157
SCAN_OUT1	PIN159
SCAN_OUT2	PIN160
PSCAN	PIN3
OSD_HREF	PIN115
OSD_VREF	PIN116
OSD_CLK	PIN117
OSD_DATA0	PIN118
OSD_DATA1	PIN119
OSD_DATA2	PIN120
OSD_DATA3	PIN121
OSD_FSW	PIN122

HFS	PIN98
HCLK	PIN103
HDATA	PIN99
RESETn	PIN100
IRQ	PIN101
MFB0	PIN113
MFB1	PIN112
MFB2	PIN111
MFB3	PIN110
MFB4	PIN109
MFB5	PIN107
MFB6	PIN106
MFB7	PIN105
MFB8	PIN104
MFB9	PIN102
MFB10	PIN124
MFB11	PIN123
ADC_RGNDA	PIN93
ACD_GGNDA	PIN89
ACD_BGNDA	PIN85
ACD_GNDA	PIN82
SUB_GNDA	PIN81
ADC_GND1	PIN80
ADC_GND2	PIN78
DAC_DGNDA	PIN127
PLL_DGNDA	PIN131
PLL_SGNDA	PIN134
DAC_SGNDA	PIN138
PLL_RGNDA	PIN144
SUB_SGNDA	PIN133
SUB_DGNDA	PIN132
SUB_RGNDA	PIN146
PPWR	PIN76
PBISA	PIN75
PDISPE	PIN43
PCLKA	PIN44
PCLKB	PIN45
PVS	PIN73
PHS	PIN74

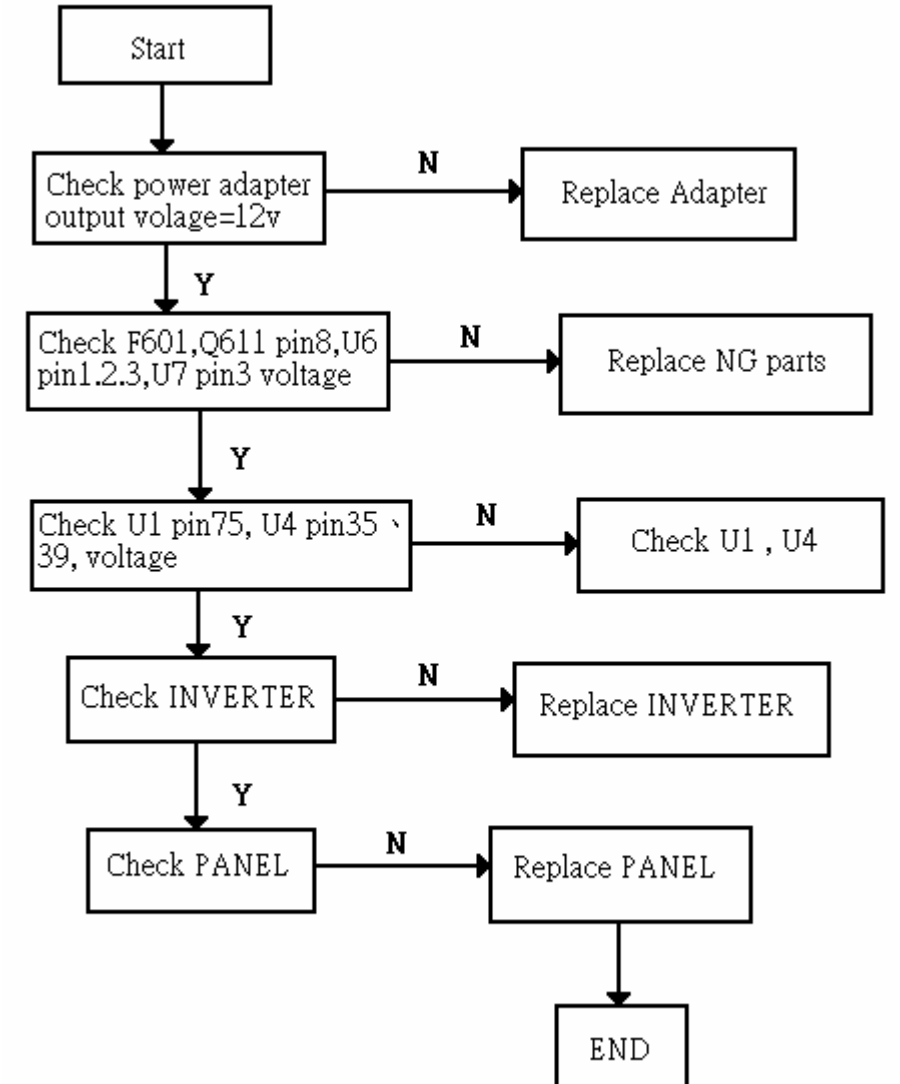
CVSS1	PIN1
CVSS1A	PIN5
RVSS1	PIN8
SRVSS1	PIN18
RVSS2	PIN30
CVSS2	PIN41
RVSS3	PIN49
CVSS2A	PIN59
RVSS4	PIN61
CVSS3	PIN72
CVSS4	PIN114
DVSS	PIN126
SVSS	PIN140
CVSS5	PIN147
SYN_VSS	PIN151
SRVSS2	PIN158
ADC_RVDDA	PIN96
ADC_GVDDA	PIN92
ADC_BVDDA	PIN88
ADC_VDDA	PIN84
PLL_RVDDA	PIN143
DAC_SVDDA	PIN137
PLL_SVDDA	PIN136
PLL_DVDDA	PIN129
DAC_DVDDA	PIN128
ADC_VDD1	PIN79
ADC_VDD2	PIN77
DVDD	PIN125
SVDD	PIN139
SRVDD1	PIN11
SRVDD2	PIN21
CVDD2	PIN58
SYN_VDD	PIN149
RVDD1	PIN12
RVDD2	PIN33
RVDD2A	PIN40
RVDD2B	PIN60
RVDD3	PIN65
RVDD3A	PIN108

PD0	PIN71
PD1	PIN70
PD2	PIN69
PD3	PIN68
PD4	PIN67
PD5	PIN66
PD6	PIN64
PD7	PIN63
PD8	PIN62
PD9	PIN57
PD10	PIN56
PD11	PIN55
PD12	PIN54
PD13	PIN53
PD14	PIN52
PD15	PIN51
PD16	PIN50
PD17	PIN48
PD18	PIN47
PD19	PIN46
PD20	PIN42
PD21	PIN39
PD22	PIN38
PD23	PIN37
PD24	PIN36
PD25	PIN35
PD26	PIN34
PD27	PIN32
PD28	PIN31
PD29	PIN29
PD30	PIN28
PD31	PIN27
PD32	PIN26
PD33	PIN25
PD34	PIN24
PD35	PIN23
PD36	PIN22
PD37	PIN20
PD38	PIN19
PD39	PIN17
PD40	PIN16
PD41	PIN15
PD42	PIN14
PD43	PIN13
PD44	PIN10
PD45	PIN9
PD46	PIN7
PD47	PIN6

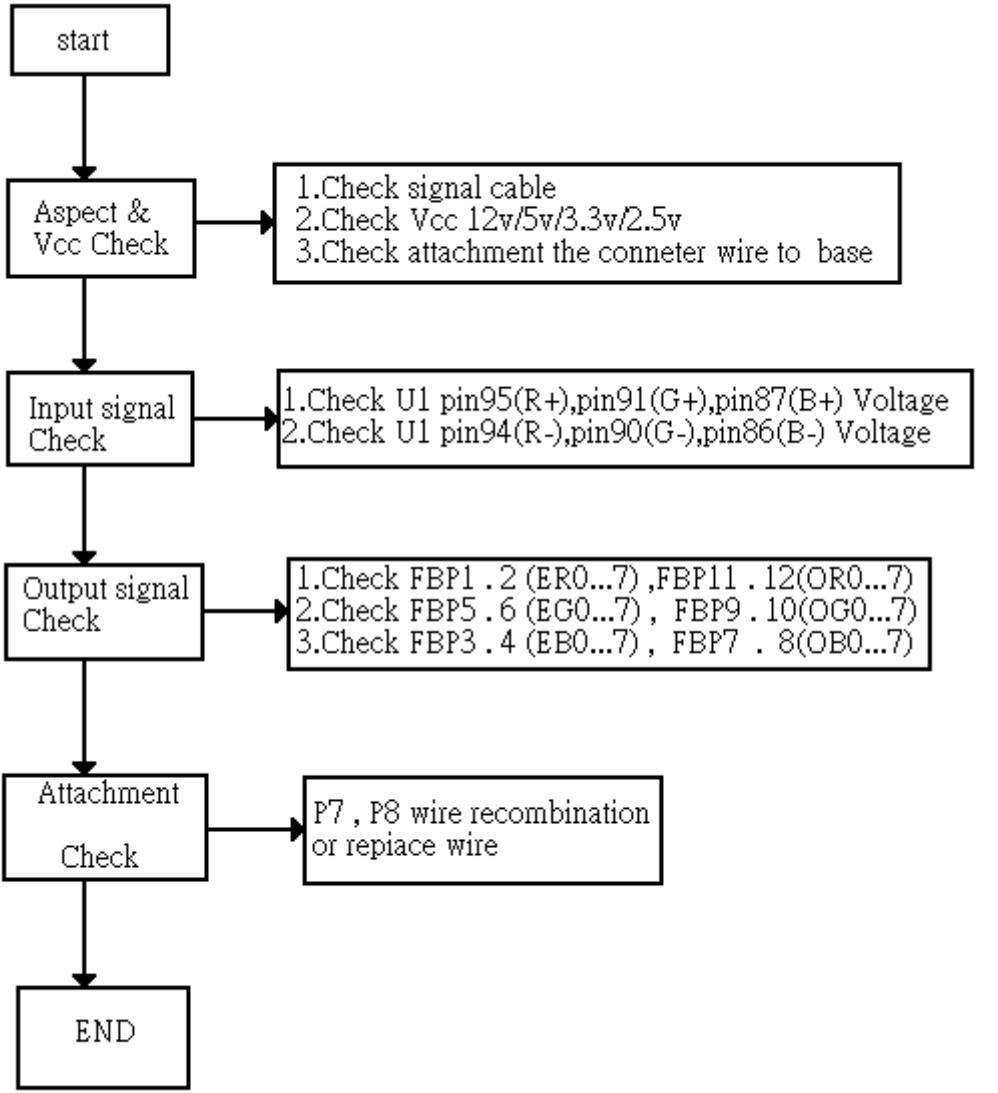
Inverter Board I/O Connections



VIDEO DOES NOT APPEAR



R. G .B is not displayed correctly



TEST CONDITION:AC LINE IN:110V/60Hz

PATTEN:FULL WHITE

S500 (FOR CMO) **MAIN/BOARD** **Unit: Volt**

IC	U1 (GMZAN2)									
PIN MODE	1	2	3	4	5	6	7	8	9	10
640*480 31K/60Hz	GND	0.00	0.00	0.00	GND	0.00	0.00	GND	0.00	0.00
800*600 48K/72Hz	GND	0.00	0.00	0.00	GND	0.00	0.00	GND	0.00	0.00
1024*768 60K/75Hz	GND	0.00	0.00	0.00	GND	0.00	0.00	GND	0.00	0.00

IC	U1 (GMZAN2)									
PIN MODE	11	12	13	14	15	16	17	18	19	20
640*480 31K/60Hz	2.50	3.29	0.00	0.00	0.00	0.00	0.00	GND	0.00	0.00
800*600 48K/72Hz	2.50	3.29	0.00	0.00	0.00	0.00	0.00	GND	0.00	0.00
1024*768 60K/75Hz	2.50	3.29	0.00	0.00	0.00	0.00	0.00	GND	0.00	0.00

IC	U1 (GMZAN2)									
PIN MODE	21	22	23	24	25	26	27	28	29	30
640*480 31K/60Hz	2.50	0.00	2.62	2.62	2.62	1.60	0.80	0.95	2.62	GND
800*600 48K/72Hz	2.50	0.00	2.60	2.60	2.60	1.60	0.80	0.95	2.60	GND
1024*768 60K/75Hz	2.50	0.00	2.77	2.77	2.77	1.60	0.80	0.95	2.77	GND

IC	U1 (GMZAN2)									
PIN MODE	31	32	33	34	35	36	37	38	39	40
640*480 31K/60Hz	2.62	2.62	3.29	1.95	0.60	0.60	2.62	2.62	2.62	3.29
800*600 48K/72Hz	2.60	2.60	3.29	1.95	0.60	0.60	2.60	2.60	2.60	3.29
1024*768 60K/75Hz	2.77	2.77	3.29	1.95	0.60	0.60	2.77	2.77	2.77	3.29

IC	U1 (GMZAN2)									
PIN MODE	41	42	43	44	45	46	47	48	49	50
640*480 31K/60Hz	GND	2.60	2.65	1.39	1.56	0.00	0.40	2.62	GND	2.63
800*600 48K/72Hz	GND	2.58	2.61	1.28	1.46	0.00	0.40	2.60	GND	2.59
1024*768 60K/75Hz	GND	2.75	2.78	1.29	1.48	0.00	0.40	2.78	GND	2.78

S500 (CMO) **MAIN/BOARD** **Unit: Volt**

IC	U1 (GMZAN2)									
PIN MODE	51	52	53	54	55	56	57	58	59	60
640*480 31K/60Hz	2.63	1.70	0.70	0.60	2.62	2.63	2.63	2.50	GND	3.29
800*600 48K/72Hz	2.60	1.70	0.70	0.60	2.60	2.59	2.60	2.50	GND	3.29
1024*768 60K/75Hz	2.78	1.70	0.70	0.60	2.78	2.78	2.78	2.50	GND	3.29

IC	U1 (GMZAN2)									
PIN MODE	61	62	63	64	65	66	67	68	69	70
640*480 31K/60Hz	GND	1.75	0.60	0.60	3.29	2.62	2.63	2.63	2.59	0.00
800*600 48K/72Hz	GND	1.75	0.60	0.60	3.29	2.60	2.59	2.59	2.57	0.00
1024*768 60K/75Hz	GND	1.75	0.60	0.60	3.29	2.78	2.78	2.78	2.75	0.00

IC	U1 (GMZAN2)									
PIN MODE	71	72	73	74	75	76	77	78	79	80
640*480 31K/60Hz	0.60	GND	3.26	2.90	3.27	3.28	2.49	GND	2.49	GND
800*600 48K/72Hz	0.60	GND	3.26	2.90	3.27	3.28	2.49	GND	2.49	GND
1024*768 60K/75Hz	0.60	GND	3.26	2.90	3.27	3.28	2.49	GND	2.49	GND

IC	U1 (GMZAN2)									
PIN MODE	81	82	83	84	85	86	87	88	89	90
640*480 31K/60Hz	GND	GND	2.95	3.28	GND	0.00	0.49	3.28	GND	0.00
800*600 48K/72Hz	GND	GND	2.95	3.28	GND	0.00	0.47	3.28	GND	0.00
1024*768 60K/75Hz	GND	GND	2.95	3.28	GND	0.00	0.50	3.28	GND	0.00

IC	U1 (GMZAN2)									
PIN MODE	91	92	93	94	95	96	97	98	99	100
640*480 31K/60Hz	0.49	3.28	GND	0.00	0.49	3.28	2.48	3.14	0.30	4.97
800*600 48K/72Hz	0.47	3.28	GND	0.00	0.47	3.28	2.48	3.14	0.30	4.97
1024*768 60K/75Hz	0.50	3.28	GND	0.00	0.50	3.28	2.48	3.14	0.30	4.97

IC	U4 (GMZAN2)									
PIN MODE	101	102	103	104	105	106	107	108	109	110
640*480 31K/60Hz	1.00	0.05	2.72	0.52	0.10	0.29	0.29	3.29	3.29	3.29

800*600 48K/72Hz	1.00	0.05	2.72	0.52	0.10	0.29	0.29	3.29	3.29	3.29
1024*768 60K/75Hz	1.00	0.05	2.72	0.52	0.10	0.29	0.29	3.29	3.29	3.29

S500 (For CMO) **MAIN/BOARD** **Unit:Volt**

IC	U1 (GMZAN2)									
PIN MODE	111	112	113	114	115	116	117	118	119	120
640*480 31K/60Hz	3.00	3.29	3.29	GND	0.00	0.00	0.00	0.20	0.20	0.20
800*600 48K/72Hz	3.00	3.29	3.29	GND	0.00	0.00	0.00	0.20	0.20	0.20
1024*768 60K/75Hz	3.00	3.29	3.29	GND	0.00	0.00	0.00	0.20	0.20	0.20

IC	U1 (GMZAN2)									
PIN MODE	121	122	123	124	125	126	127	128	129	130
640*480 31K/60Hz	0.23	0.20	3.29	0.06	2.50	GND	GND	3.29	3.29	0.70
800*600 48K/72Hz	0.23	0.20	3.29	0.06	2.50	GND	GND	3.29	3.29	0.70
1024*768 60K/75Hz	0.23	0.20	3.29	0.06	2.50	GND	GND	3.29	3.29	0.70

IC	U1 (GMZAN2)									
PIN MODE	131	132	133	134	135	136	137	138	139	140
640*480 31K/60Hz	GND	GND	GND	GND	0.75	3.29	3.29	GND	2.50	GND
800*600 48K/72Hz	GND	GND	GND	GND	0.75	3.29	3.29	GND	2.50	GND
1024*768 60K/75Hz	GND	GND	GND	GND	0.75	3.29	3.29	GND	2.50	GND

IC	U1 (GMZAN2)									
PIN MODE	141	142	143	144	145	146	147	148	149	150
640*480 31K/60Hz	2.70	2.40	3.29	GND	0.89	GND	GND	0.00	2.50	0.59
800*600 48K/72Hz	2.70	2.40	3.29	GND	0.89	GND	GND	0.00	2.50	0.57
1024*768 60K/75Hz	2.70	2.40	3.29	GND	0.89	GND	GND	0.00	2.50	0.37

IC	U1 (GMZAN2)									
PIN MODE	151	152	153	154	155	156	157	158	159	160
640*480 31K/60Hz	GND	0.00	0.00	0.00	0.00	0.00	0.00	GND	0.00	0.00
800*600 48K/72Hz	GND	0.00	0.00	0.00	0.00	0.00	0.00	GND	0.00	0.00
1024*768 60K/75Hz	GND	0.00	0.00	0.00	0.00	0.00	0.00	GND	0.00	0.00

S500 (For CMO) **MAIN/BOARD** **Unit:Volt**

IC	U3 (24LC16)							
PIN MODE	1	2	3	4	5	6	7	8
640*480 31K	GND	GND	GND	GND	5.00	5.00	GND	5.00
800*600 48K	GND	GND	GND	GND	5.00	5.00	GND	5.00
1024*768 60K	GND	GND	GND	GND	5.00	5.00	GND	5.00

IC	U4 (MTV312M)										
PIN MODE	1	2	3	4	5	6	7	8	9	10	11
640*480 31K/60Hz	4.97	4.97	4.97	3.17	0.00	0.00	0.01	4.97	1.30	GND	1.15
800*600 48K/72Hz	4.97	4.97	4.97	3.17	0.00	0.00	0.01	4.97	1.30	GND	1.15
1024*768 60K/75Hz	4.97	4.97	4.97	3.17	0.00	0.00	0.01	4.97	1.30	GND	1.15

IC	U4 (MTV312M)										
PIN MODE	12	13	14	15	16	17	18	19	20	21	22
640*480 31K/60Hz	1.43	5.00	5.00	0.00	4.45	0.31	0.09	1.20	0.52	0.05	2.73
800*600 48K/72Hz	1.43	5.00	5.00	0.00	4.45	0.31	0.09	1.20	0.52	0.05	2.73
1024*768 60K/75Hz	1.43	5.00	5.00	0.00	4.45	0.31	0.09	1.20	0.52	0.05	2.73

IC	U4 (MTV312M)										
PIN MODE	23	24	25	26	27	28	29	30	31	32	33
640*480 31K/60Hz	3.15	4.97	0.00	0.85	0.85	0.00	4.57	0.85	0.85	0.85	4.97
800*600 48K/72Hz	3.15	4.97	0.00	0.85	0.85	0.00	4.57	0.85	0.85	0.85	4.97
1024*768 60K/75Hz	3.15	4.97	0.00	0.85	0.95	0.00	4.57	0.85	0.85	0.85	4.97

IC	U4 (MTV312M)										
PIN MODE	34	35	36	37	38	39	40	41	42	43	44
640*480 31K/60Hz	4.97	2.51	4.95	4.37	0.10	0.71	4.97	0.85	0.85	4.26	4.83
800*600 48K/72Hz	4.97	2.51	0.04	0.57	0.10	0.71	4.97	0.85	0.85	0.53	0.01
1024*768 60K/75Hz	4.97	2.51	0.01	0.37	0.10	0.71	4.97	0.85	0.85	0.32	0.00

S500 (FOR CMO) **MAIN/BOARD** **Unit: Volt**

IC	U7 (8912)							
PIN MODE	1	2	3	4	5	6	7	8
640*480 31K	3.27	10.82	2.50	4.26	3.43	3.43	3.28	3.28
800*600 48K	3.27	10.82	2.50	4.28	3.41	3.41	3.28	3.28
1024*768 60K	3.27	10.82	2.50	4.27	3.43	3.43	3.28	3.28

IC	U601 (5001C)							
PIN MODE	1	2	3	4	5	6	7	8
640*480 31K	7.40	11.04	0.92	0.97	2.42	1.15	0.96	GND
800*600 48K	7.40	11.04	0.92	0.97	2.42	1.15	0.96	GND
1024*768 60K	7.40	11.04	0.92	0.97	2.42	1.15	0.96	GND

IC	U602 (LM358A)							
PIN MODE	1	2	3	4	5	6	7	8
640*480 31K	0.71	2.48	2.22	0.00	0	2.50	4.28	11.90
800*600 48K	0.71	2.48	2.22	0.00	0	2.50	4.28	11.90
1024*768 60K	0.71	2.48	2.22	0.00	0	2.50	4.28	11.90

IC	Q611 (9435A)							
PIN MODE	1	2	3	4	5	6	7	8
640*480 31K	11.92	11.92	11.92	8.32	5.08	5.08	5.08	5.08
800*600 48K	11.92	11.92	11.92	8.32	5.08	5.08	5.08	5.08
1024*768 60K	11.92	11.92	11.92	8.32	5.08	5.08	5.08	5.08

TEST CONDITION:

AC LINE IN:110V/60Hz PATTEN:FULL WHITE

S500 (For CMO) **MAIN/BOARD** **Unit:Volt**

TR	Q2			Q3			Q4		
PIN / MODE	E	C	B	E	C	B	E	C	B
640*480 31K	5.00	4.97	4.35	0.00	0.02	0.63	5.00	4.97	4.25
800*600 48K	5.00	4.97	4.35	0.00	0.02	0.63	5.00	4.97	4.25
1024*768 60K	5.00	4.97	4.35	0.00	0.02	0.63	5.00	4.97	4.25

TR	Q5			Q6			Q7		
PIN / MODE	E	C	B	E	C	B	E	C	B
640*480 31K	0.00	10.83	0.00	0.00	0.02	0.71	0.00	0.00	0.63
800*600 48K	0.00	10.83	0.00	0.00	0.02	0.71	0.00	0.00	0.63
1024*768 60K	0.00	10.83	0.00	0.00	0.02	0.71	0.00	0.00	0.63

TR	Q601			Q602			Q603		
PIN / MODE	E	C	B	E	C	B	E	C	B
640*480 31K	0.00	0.01	0.64	11.88	11.85	11.22	0.00	0.99	0.00
800*600 48K	0.00	0.01	0.64	11.88	11.85	11.22	0.00	0.99	0.00
1024*768 60K	0.00	0.01	0.64	11.88	11.85	11.22	0.00	0.99	0.00

TR	Q604			Q605		
PIN / MODE	E	C	B	E	C	B
640*480 31K	8.32	0.00	8.45	8.32	11.92	8.45
800*600 48K	8.32	0.00	8.45	8.32	11.92	8.45
1024*768 60K	8.32	0.00	8.45	8.32	11.92	8.45

S500 Parts List

Remark: •:1st priority , Recommended Q'ty = (Location Number x3)
⊙: 2nd priority , Recommended Q'ty = (Location Number x2)
N: New parts
！:Critical Components Affecting X-radiation

Location	Part No.	Description
ITEGRATED CIRCUITS		
U1	16UA9-001Z	IC CHIPSET 160PIN GMZAN2 160P PQFP
U3	16M08-111Z	IC EEPROM 8P AT24C16N-10SC-2.7V(SOT-8)
• U4	16P44-008Z	IC MTV312M64(ISP)44P PLCC 64K FLASH
U6	17A07-4407	IC LINEAR 3P REG. AIC1084-33CM TO-263
U7	14K08-012Z	TR MOS FET(N)DUAL 30V 7A CEM 8912(SO-8)
U9	17A07-3904	IC LINEAR VOLTAGE REG. AP431R(SOT-23)
U601	17A06-450J	IC LINEAR SOT-8 DEFLECTIONIC TL5001A SMD
U602	17A11-170J	IC LINEAR O/P AMP LM358DR(SMD)
IC611	16L08-0053	IC SWITCHING 8P CEM 9435A (SO-8)
TRASISTOR		
Q2	14A02-012N	TR PNP MMBT3906LT1 (SOT-23)
Q3	14C02-012B	TR NPN 2N3904 SMD
Q4	14A02-012N	TR PNP MMBT3906LT1 (SOT-23)
Q5	14C02-012B	TR NPN 2N3904 SMD
Q6	14C02-012B	TR NPN 2N3904 SMD
Q7	14C02-012B	TR NPN 2N3904 SMD
Q601	14C02-012B	TR NPN 2N3904 SMD
Q602	14A02-012N	TR PNP MMBT3906LT1 (SOT-23)
Q603	14C02-012B	TR NPN 2N3904 SMD
Q604	14A02-012N	TR PNP MMBT3906LT1 (SOT-23)
Q605	14C02-022E	TR NPN BC817-25 SMD (SOT-23)
Q901	14A92-021E	TR PNP 2SA733
Q902	14A92-021E	TR PNP 2SA733
CAPACITOR		
C2	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C3	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C4	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C5	38FA5-220S	CAP CH 22P 5% 50V NPO 0603
C6	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C7	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
Location	**Part No.**	**Description**
C9	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C10	38FA5-330S	CAP CH 33P 5% 50V NPO 0603
C11	38FA5-330S	CAP CH 33P 5% 50V NPO 0603
C16	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C17	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C19	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C20	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C21	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C22	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C23	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C24	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C25	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C26	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C27	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C28	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C29	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C30	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C31	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C32	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C33	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C34	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C35	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C36	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C37	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C38	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C39	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C40	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C41	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603

C42	39N56-103S	CAP CH 0.01U 10% 50V 0603
C43	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C44	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
Location	**Part No.**	**Description**
C46	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C47	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C48	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C49	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C50	39N56-103S	CAP CH 0.01U 10% 50V 0603
C51	39N56-103S	CAP CH 0.01U 10% 50V 0603
C52	39N56-103S	CAP CH 0.01U 10% 50V 0603
C56	39N56-103S	CAP CH 0.01U 10% 50V 0603
C57	39N56-103S	CAP CH 0.01U 10% 50V 0603
C60	38FA5-220S	CAP CH 22P 5% 50V NPO 0603
C61	38FA5-220S	CAP CH 22P 5% 50V NPO 0603
C69	28Q27-470C	CAP E 47U 20% 10V 105 RA TP P=2.5MM(4*7)
C71	39N56-102S	CAP CH 1000P 10% 50V 0603
C72	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C601	39N56-222S	CAP CH 2200P 10% 50V 0603
C602	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C603	28Q67-109C	CAP E 1U 20% 50V 105 RATP P=2.5MM
C604	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C605	39N56-222S	CAP CH 2200P 10% 50V 0603
C608	28H47-221P	CAP E 220U 20% 25V 85 RA SL P=3.5MM
C610	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C611	28H27-471P	CAP E 470U 20% 10V 85 RA SL P=3.5MM
C612	28H27-471P	CAP E 470U 20% 10V 85 RA SL P=3.5MM
C613	39N56-222S	CAP CH 2200P 10% 50V 0603
C614	38FA5-101S	CAP CH 100P 5% 50V NPO 0603
C615	39M99-104S	CAP CH 0.1U +80 -20% 25V 0603
C902	39B87C104R	CAP ML 0.1U 20% 50V
CP1-12	38FA6-330P	CAP ARRAY NPO 33P 10% 50V 8P4C SMD
RESISTOR		
R1	21125-000AY	RES TFC 0R 5% 1/16W 0603
R3	21125-000AY	RES TFC 0R 5% 1/16W 0603
R4	21125-472AY	RES TFC 4K7 5% 1/16W 0603
R8	21125-103AY	RES TFC 10K 5% 1/16W 0603
R9	21125-103AY	RES TFC 10K 5% 1/16W 0603
R10	21125-471AY	RES TFC 470R 5% 1/16W 0603
R11	21125-471AY	RES TFC 470R 5% 1/16W 0603
R12	21125-473AY	RES TFC 47K 5% 1/16W 0603
Location	**Part No.**	**Description**
R14	21125-103AY	RES TFC 10K 5% 1/16W 0603
R15	21125-103AY	RES TFC 10K 5% 1/16W 0603
R16	21125-103AY	RES TFC 10K 5% 1/16W 0603
R17	21125-103AY	RES TFC 10K 5% 1/16W 0603
R18	21125-102AY	RES TFC 1K 5% 1/16W 0603
R23	21125-000AY	RES TFC 0R 5% 1/16W 0603
R24	21125-000AY	RES TFC 0R 5% 1/16W 0603
R30	21125-101AY	RES TFC 100R 5% 1/16W 0603
R31	21125-101AY	RES TFC 100R 5% 1/16W 0603
R33	21125-472AY	RES TFC 4K7 5% 1/16W 0603
R34	21125-000AY	RES TFC 0R 5% 1/16W 0603
R35	21125-102AY	RES TFC 1K 5% 1/16W 0603
R36	21125-102AY	RES TFC 1K 5% 1/16W 0603
R37	21125-103AY	RES TFC 10K 5% 1/16W 0603
R44	21125-000BY	RES TFC 0R 5% 1/16W 0805
R46	21125-000AY	RES TFC 0R 5% 1/16W 0603
R54	21125-101AY	RES TFC 100R 5% 1/16W 0603
R55	21125-101AY	RES TFC 100R 5% 1/16W 0603
R56	21125-101AY	RES TFC 100R 5% 1/16W 0603
R58	21125-750AY	RES TFC 75R 5% 1/16W 0603
R59	21125-750AY	RES TFC 75R 5% 1/16W 0603
R60	21125-750AY	RES TFC 75R 5% 1/16W 0603
R61	21125-101AY	RES TFC 100R 5% 1/16W 0603
R62	21125-101AY	RES TFC 100R 5% 1/16W 0603
R63	21125-101AY	RES TFC 100R 5% 1/16W 0603
R64	21125-101AY	RES TFC 100R 5% 1/16W 0603
R65	21125-000AY	RES TFC 0R 5% 1/16W 0603
R68	21125-101AY	RES TFC 100R 5% 1/16W 0603
R69	21125-000AY	RES TFC 0R 5% 1/16W 0603
R70	21125-472AY	RES TFC 4K7 5% 1/16W 0603
R71	21125-472AY	RES TFC 4K7 5% 1/16W 0603
R72	21125-105AY	RES TFC 1M 5% 1/16W 0603
R73	21125-330AY	RES TFC 33R 5% 1/16W 0603

R74	21125-330AY	RES TFC 33R 5% 1/16W 0603
R76	21125-103AY	RES TFC 10K 5% 1/16W 0603
R77	21125-103AY	RES TFC 10K 5% 1/16W 0603
R81	46R0B-0070	COIL RF CHIP BEAD HCB2012K-301T20(0805)
Location	**Part No.**	**Description**
R85	21125-103AY	RES TFC 10K 5% 1/16W 0603
R88	21125-103AY	RES TFC 10K 5% 1/16W 0603
R90	21125-105AY	RES TFC 1M 5% 1/16W 0603
R601	21125-223AY	RES TFC 22K 5% 1/16W 0603
R602	21125-472AY	RES TFC 4K7 5% 1/16W 0603
R603	21125-223AY	RES TFC 22K 5% 1/16W 0603
R604	21115-681BY	RES TFC 680R 5% 1/10W 0805
R605	21115-623AY	RES TFC 62K 5% 1/10W 0603
R606	21115-753AY	RES TFC 75K 5% 1/10W 0603
R607	21125-103AY	RES TFC 10K 5% 1/16W 0603
R608	21111-104AY	RES TFC 100K 1% 1/10W 0603
R609	21111S003AY	RES TFC 41.2K 1% 1/10W 0603
R611	21111-103AY	RES TFC 10K 1% 1/10W 0603
R613	21115-222BY	RES TFC 2.2K 5% 1/10W 0805
R614	21115-681BY	RES TFC 680R 5% 1/10W 0805
R616	21125-471AY	RES TFC 470R 5% 1/16W 0603
R619	21125-472AY	RES TFC 4K7 5% 1/16W 0603
R620	21125-472AY	RES TFC 4K7 5% 1/16W 0603
R622	21111-104AY	RES TFC 100K 1% 1/10W 0603
R623	21125-472AY	RES TFC 4K7 5% 1/16W 0603
R624	21111-103AY	RES TFC 10K 1% 1/10W 0603
R625	21125-472AY	RES TFC 4K7 5% 1/16W 0603
R626	21125-222AY	RES TFC 2K2 5% 1/16W 0603
R627	21125-472AY	RES TFC 4K7 5% 1/16W 0603
R628	21125-103AY	RES TFC 10K 5% 1/16W 0603
R629	21125-103AY	RES TFC 10K 5% 1/16W 0603
R630	21125-102AY	RES TFC 1K 5% 1/16W 0603
R631	21125-222AY	RES TFC 2K2 5% 1/16W 0603
R651	21125-000AY	RES TFC 0R 5% 1/16W 0603
R652	21125-000AY	RES TFC 0R 5% 1/16W 0603
R653	21125-000AY	RES TFC 0R 5% 1/16W 0603
R654	21125-000AY	RES TFC 0R 5% 1/16W 0603
R655	21125-000AY	RES TFC 0R 5% 1/16W 0603
R656	21125-000AY	RES TFC 0R 5% 1/16W 0603
R657	21125-000AY	RES TFC 0R 5% 1/16W 0603
R901	22215-102M	RES CF 1K 5% 1/8W
R902	22215-221M	RES CF 220R 5% 1/8W
Location	**Part No.**	**Description**
R904	22215-102M	RES CF 1K 5% 1/8W
R905	22215-103M	RES CF 10K 5% 1/8W
R906	22215-103M	RES CF 10K 5% 1/8W
R907	22215-103M	RES CF 10K 5% 1/8W
R908	22215-103M	RES CF 10K 5% 1/8W
R909	22215-103M	RES CF 10K 5% 1/8W
COILS		
L2	46R0B-0070	COIL RF CHIP BEAD HCB2012K-301T20(0805)
L3	46R0B-0070	COIL RF CHIP BEAD HCB2012K-301T20(0805)
L4	46R0B-0070	COIL RF CHIP BEAD HCB2012K-301T20(0805)
L5	46R0B-0070	COIL RF CHIP BEAD HCB2012K-301T20(0805)
L6	46R0B-0070	COIL RF CHIP BEAD HCB2012K-301T20(0805)
L7	21125-000BY	RES TFC 0R 5% 1/16W 0805
L8	21125-000BY	RES TFC 0R 5% 1/16W 0805
L9	21125-000BY	RES TFC 0R 5% 1/16W 0805
L84	21125-000BY	RES TFC 0R 5% 1/16W 0805
L601	46R00-0010	CORE RF BEAD RHW 3.5*6*1.0 TP
L602	46N00-0880E	COIL LINE CHOKE 47uH 3A
L603	21125-000BY	RES TFC 0R 5% 1/16W 0805
L604	21125-000BY	RES TFC 0R 5% 1/16W 0805
L615	21125-000BY	RES TFC 0R 5% 1/16W 0805
DIODE		
D8	15A1UEQ01E	DIODE DOUBLE 70V 0.215A(BAV99)SOT-23
D7	15S65V200T	DIODE RECTIFIER 1A 400V(SIG)SMA/D0-214AC
D9	15A1UEQ01E	DIODE DOUBLE 70V 0.215A(BAV99)SOT-23
D10	15A1UEQ01E	DIODE DOUBLE 70V 0.215A(BAV99)SOT-23
D13	15S65V200T	DIODE RECTIFIER 1A 400V(SIG)SMA/D0-214AC
D601	15B6TC401Z	DIODE SCHOTTKY HI SW 2A40V(SS24)
ZD1	15Z33S5690P	DIODE ZENER 5.6V 5% 0.5W (LL-34)

ZD2	15Z33S5690P	DIODE ZENER 5.6V 5% 0.5W (LL-34)
ZD3	15Z33S5690P	DIODE ZENER 5.6V 5% 0.5W (LL-34)
ZD4	15Z33S5690P	DIODE ZENER 5.6V 5% 0.5W (LL-34)
ZD601	15Z33S5690P	DIODE ZENER 5.6V 5% 0.5W (LL-34)
ZD602	15Z33S1500P	DIODE ZENER 15V 5% 0.5W(LL-34)
MISCELLANEOS		
	400718300	CARTON (485*445*240)(S500)
	400718300	CARTON (485*445*240)(S500)
Location	**Part No.**	**Description**
	430035300	CARD BOARD 50*50*900*5T(SONY)
	430047300	CUSHION (L)
	430048300	CUSHION (R)
	430049300	CUSHION (BASE SUPPORT)
	430050300	PANEL PROTECTION CARD
	500047000	PARTITION(1000*820*7.5T)PAPER CUSHION
	0540016A00	PE BAG (580*730MM)
	0543652A00	PE BAG 200*280*0.04T
	640118000	LABEL (TCO99)(PV520)
	656671200	WARRANTY CARD (UK)
	660013100	INSPECTION CARD LCD
	670349500	LABEL CARTON (CIRCLE-BLUE)
	670407600	LABEL CARTON (XC1511-A09)
	800059000	CABINET BACK (87310)
	810032000	BASE ABS 94HB (87310)
	810068000	HINGE COVER(L)(87310)
	810069000	HINGE COVER(R)(87310)
	820103000	CABINET FRONT (87310)
	840014000	SUPPORT FRONT ABS 94-HB(87310)
	840015000	SUPPORT BACK ABS 94-HB(87310)
	850046000	LENS LED
	870001002	FRAME FOR PCB (CMO-X3)
	10A15-0C0A	LCD TFT 1024*768(M150X3-T05)
	EC1511-A01	PCB INTERFACE PANEL(CM0)36*66*1.6MM
	AC1511-A01	PCB MAIN-M 140*98*1.6MM(LJE15XE)
	GC1511-A01	PCB DISPLAY-S 90*20*1.6MM(S500)
	47I00-0120F	INVERTER FOR CMO M150X3-T05 4CCFL
	46R00-0760	CORE RF (ZP 5*12*25) FOR 30P FFC CO
	46R00-0770	CORE RF (ZP 6*15*34) FOR 45P FFC CO
FBP1	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
FBP2	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
FBP3	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
FBP4	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
FBP5	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
FBP6	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
FBP7	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
FBP8	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
Location	**Part No.**	**Description**
FBP9	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
FBP11	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
FBP12	46R10-0804	COIL RF BEAD ARRAY 8P FCA3216M4-121T02
F601	49F13-3021	FUSE FAST 3A 125V
SW901	52P11-0060	SWITCH PRESS W/O LOCK H=5MM
SW902	52P11-0060	SWITCH PRESS W/O LOCK H=5MM
SW903	52P11-0060	SWITCH PRESS W/O LOCK H=5MM
SW904	52P11-0060	SWITCH PRESS W/O LOCK H=5MM
SW905	52P11-0060	SWITCH PRESS W/O LOCK H=5MM
FOR TP1	54C14B0500	WIRE TERMINAL 1007#20 4.5CM BLACK(TUBE)
GND1	54C14B0510	WIRE TERMINAL 1007#20 4.5CM BLACK
GND2	54C14B0510	WIRE TERMINAL 1007#20 4.5CM BLACK
PANEL WIRE	54FB2-1700	WIRE FLAT 30P 17CM(FFC)(RIGHT ANGLE)(AL)
PANEL WIRE	54FD2-1700	WIRE FLAT 45P 17CM(FFC)(RIGHT ANGLE)(AL)
J901	54J05-075B	WIRE JUMPER 7.5MM
	56P65-1803	POWER CORD EUR 2P C(VDE) 1M8-B 250V6A
Y1	60C00-0140	XTAL 20MHZ
Y2	60C00-0070	XTAL 12MHZ MINI SIZE
P1	64BV0-L003M	HEADER 0.5 45P SMD TYPE
P2	64B68-700A	HEADER 2.0 RS1*6P A/W
P2	64BU0-L003M	HEADER 0.5 30P SMD TYPE
P3	64BNK-K000	HEADER 1.25 60P 53475
P7	64BU0-L003M	HEADER 0.5 30P SMD TYPE
P8	64BV0-L003M	HEADER 0.5 45P SMD TYPE

P10	64B7S-0010T	HEADER 1.5 RSL*7P 180 ANGLE
P601	64J60-0030T	DC POWER JACK 90 RIGHT AUGLE(EIAJ)
P901	64B98-700A	HEADER 2.0 RS1*9P A/W
FOR U4	64DGA-0020	SOCKET IC PCS PLCC 44P SMD
	65S10-1507	CABLE SIGNAL 15D-15D 150CM BLACK OD6.6MM
	65W76610C0	CONN H/H WIRE 1007#28 7P-3P+4P L=10CM
	65W90S13C0	CONN H/H WIRE 1007#28 9P 2.0 L=12.5CM
	7410064301	RUBBER FOOT
	673503205A	WASHER POLY (3.2*6*0.5T) ON PANEL
	7110145300	FUNCTION KEY (90460)
	7141180600	OVERLAY TUV/GS/MPRII/N(S500)
	7141182400	PLATE NAME (S500)
	7340021300	SPRING GROUNDING(ON MAIN PCB)

Location	Part No.	Description
	7620160100	BRACKET BASE SGCC T=3.0
	7620166100	BRACKET TERMINAL
	8010016000	PLATE MYLAR (85*60MM) ON MAIN PCB
	8010009000	PLATE MYLAR (100#) 328*242
	8010011000	PLATE MYLAR (INVERTER)
Location	**Part No.**	**Description**
	859001-401	TAPE STRETCH FILM W=500MM 1500 M/RL
	98T140-020	CD-650 MB MANUAL (S500)
	SZ00BB-005	SUB-Z ASSY BRACKET SUPPORT/HINGE ASSY
	SZADPT-028	SUB-Z ASSY ADAPTER 48W (LAD6019AB4)

S500 EXPLODED VIEW PART LIST

NO.	PARTS NUMBER	DESCRIPTION	Q'TY	
01	0820103000	FRONT CABINET	1	
02	0800059000	REAR COVER	1	
03	10A15-0C0A	PANEL	1	
04	7110145300	FUNCTION KEY	1	
05	7620165100	BRACKET MAIN METAL	1	
06	0870001002	FRAME FOR PCB	1	
07	7620166100	BRACKET TERMINAL	1	
08	0850046000	LENS LED	1	
09	0810068000	HINGE COVER (L)	1	
10	0810069000	HINGE COVER (R)	1	
11	7141182400	NAME PLATE	1	
12	0810032000	BASE COVER	1	
13	6729340081	SW M4x8	3	
14	0840015000	SUPPORT BACK	1	
15	0840014000	SUPPORT FRONT	1	
16	7410064301	RUBBER FOOT	6	
17	6721L30081	SW TP3x8	8	
18	7620160100	BRACKET BASE SGLC	1	
19	7620159100	BRACKET SUPPORT	1	SZ00BB-005
20	SZ00MS-011	SUB-Z ASSY (R)	1	
21	SZ00MS-010	SUB-Z ASSY (L)	1	
22	6720740100	SW M4x10, WASHER	4	
23	6724A30080	SW T3x8	2	
24	6729330051	SW ISO M3x5	4	
25	7340021300	SPRING GROUNDING	2	
26		OVERLAY	1	
27	672A030060	SW PT 3x6	14	
28	6729330081	SW ISO M3x8	4	
29	673503205A	POLY WASHER	1	
30	6720330040	SW ISO M3x4	8	
31	672A330101	SW PT 3x10	2	
32	6720L30041	SW ISO M3x4	4	
33	7420042100	SPONGE 10x6.5x10	3	
34	7420041100	SPONGE 10x10.5x10	3	
35	8010016000	PLATE MYLAR	1	
36	8010011000	PLATE MYLAR	1	
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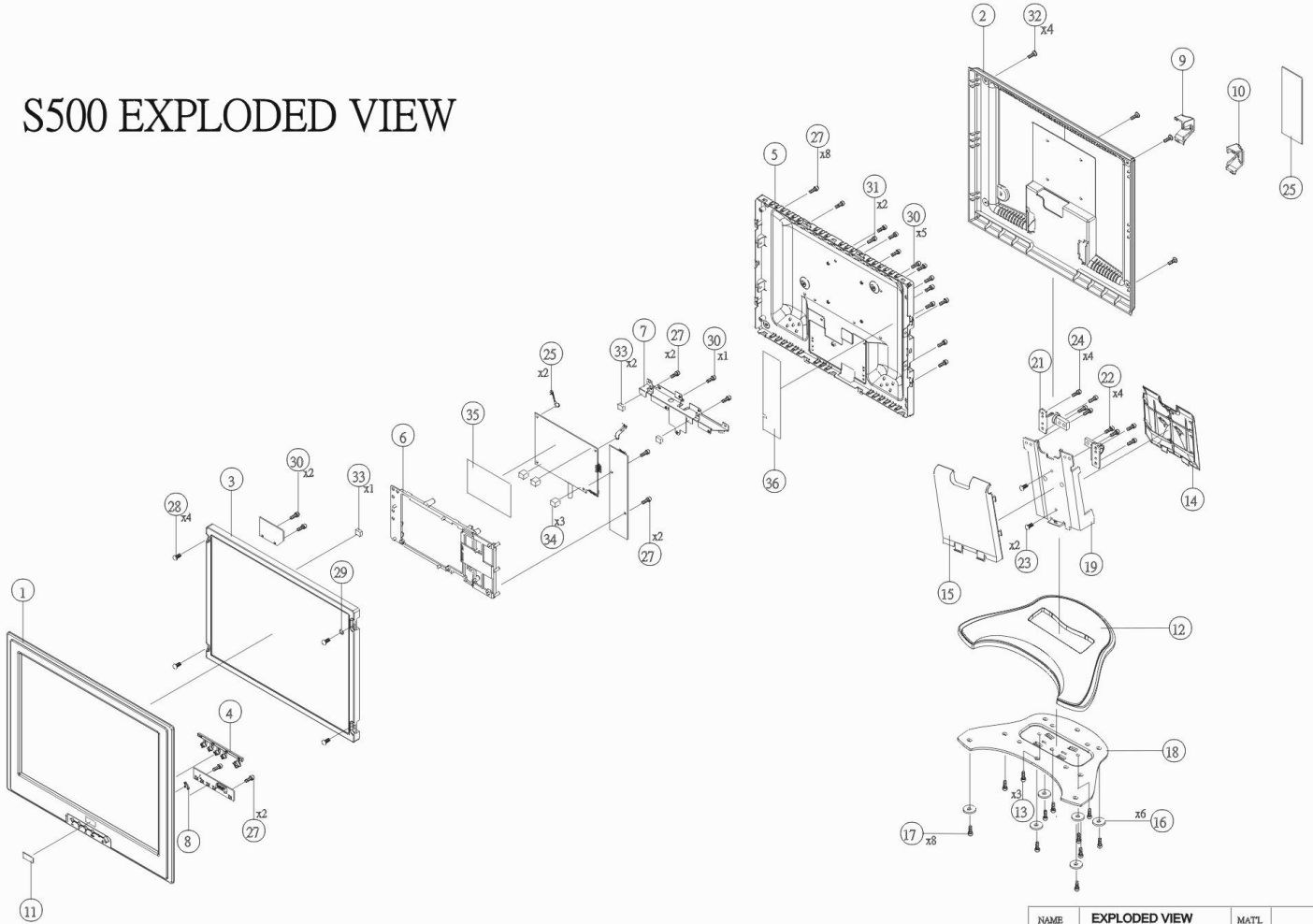
S500 EXPLODED VIEW



NAME	EXPLODED VIEW			MATL	
MODEL	S500			FINISHED	
SCALE		DIM.	M/M	QTY	REV
DRAWN	DESIGNED	CHECKED	APPROVED	PARTS NO.	
Tina Liu				DWG NUMBER	EXP-S500
6/12/02'					

CHUNTEX ELECTRONIC CO.,LTD.